

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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SE	RIAL NUMBER	NUMBER FILING DATE FIRST NAMED API			÷.	ATTORNEY DOCKET NO.		
	07/110.7	91 10/21	/87. KING			50227		
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1		ROSENBERG LER BUILDI	18M2/0918 . P.C.SUITE 1200	ı	ART UN	IT PAPER NUMBER		
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<u>L</u>					DATE MAILED	: 09/18/96		

Please find below a communication from the EXAMINER in charge of this application.

Commissioner of Patents

INTER RENCE INITIAL MEMORANDUM

BOARD OF PATENT APPEALS AND IN ERFERENCES: An interference is found to exist between the following cases:

	This ii	nterference involves	parties				
KING ET A	APPLICATION NO. 07/1/0,79/	FILING DATE 10/21/87	PATENT NO., IF ANY	ISSUE DATE, IF ANY			
If application has been patented, have	: maintenance fees been paid?	Yes No	Maintenance fees not du	te yet			
**Accorded the benefit of:							
COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY			
US	06/836,414	3/5/80					
	, ,						
The claim(s) of this party which corres PATENTED OR PATENTABLE PE 4446, 47 and		UNPATENTABLE PENDING	G CLAIMS				
The claim(s) of this party which does(of PATENIED OR PATENTABLE PE	to) <u>not</u> correspond to this count is(are): NDING CLAIMS	UNPATENTABLE PENDING	G CLAIMS				
SLAMON ET A	APPLICATION NO. L 06/948265	FILING DATE	PATENT NO., IF ANY 4968, 603	ISSUE DATE, IF ANY			
If application has been patented, have		Yes No		11/6/10			
**Accorded the benefit of:	maniculatice rees occur paid:	Yes No	Maintenance fees not du	e yet			
COUNTRY	APPLICATION NO.	FILING DATE	PATENT NO., IF ANY	ISSUE DATE, IF ANY			
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The claim(s) of this party which corres PATENTED OR PATENTABLE PEN - Z Z		UNPATENTABLE PENDING	CLAIMS				
The claim(s) of this party which does(d PATENTED OR PATENTABLE PEN	o) not correspond to this count is(are): NDING CLAIMS	UNPATENTABLE PENDING CLAIMS					
screen 2970. If fees are d (35 USC 135(a); 37 CFR 2. For each party, identify the 1.601(f), (n); 1.609(b)(2) 3. For each party, identify the CFR 1.609(b)(3)). 4. Forward all files including the England Engl	I in the interference, check if ue and they have not been part 1.606). The patentable (or patented) are patentable (or patented) are patentable (or patented) are patentable (or patented) are gethose the benefit of which perence Initial Memorandum are information requested below that a single proposed interference the party, application or it as corresponding to the courter.	nd unpatentable (pending unpatentable (pending unpatentable (pending unpatentable (pending unpatentable (pending unpatentable (pending unpatentable unt, provide an explanation) (3). The interpretable (pending unpatent unpatent unpatentable unt, provide an explanation) (3). The interpretable (pending unpatentable (pending unpatentable unpatentable unpatentable unpatentable (pending unpatentable unpatentable unpatentable unpatentable unpatentable unpatentable unpatentable unpatentable (pending unpatentable unpatentab	not be declared since it g) claims which corresp g) claims which do not your records. (a) separate typewritt m of any party is exactle claim number. on of why each claim dunation of why each claim declaim decl	en sheet(s). y the same word for word efines the same patentable m defines a separate			
9/16/96	ARY EXAMINER (Signature) Mash JP DIRECTOR SIGNATURE (if require)		NO. 08-3894	ART UNIT 1807			
The confication and Silver	e of each application the benefit of which						

application if there are intervening applications necessary for continuity.

THIS PAGE CAN BE DUPLICATED IF THERE ARE MORE THAN TWO INTERFERING PARTIES.

Interference summary for 07/110,791 versus P/N 4,968,603. Proposed phantom count: (combination of claim 44 of 07/110,791 and claim 1 of P/N 4,968,603)

A method of diagnosing or evaluating human cancer in a patient comprising: measuring the level of amplification in a tissue or tumor sample containing cells from said patient or increased expression of a MAC117 gene in a body sample from said patient, the presence of amplification or increased expression of said MAC117 gene indicating the presence of cancer or a cancer with a more malignant phenotype

OR

A method for screening patients to determine disease status, said method comprising: measuring the level of amplification or expression of the HER-2/neu gene in a sample from a patient suffering from breast or ovarian adenocarcinoma; and classifying those patients having an increased level of amplification or expression of the HER-2/neu gene relative to a reference level characteristic of normal cells as being more likely to suffer disease relapse or having a decreased chance of survival.

(Note that the Her-2/neu gene and the MAC117 gene are the same gene as summarized in P/N 4,968,603 in column 2, lines 39-43.)

All of the claims of 07/110,791 and P/N 4,968,603 correspond to the count in that they all are directed to evaluation, diagnosis, screening, or evaluation of cancer treatment as directly related procedures in that they are all based on the

analysis of the same gene regarding whether it is amplified, rearranged, or overexpressed in the tissue being tested. Such amplification, rearrangement, or overexpression being indicative of cancer diagnosis or when expressed regarding extent of gene alteration as indicative of a worsening condition of the patient whether being treated or not.

ARDIN H. MARSCHEL PATENT EXAMINER GROUP 1800

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FILING RECEIPT



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SFRIAL NUMBER FILE	NG DATE GR	ART UNIT	FIL	FEE REC'D	ATTORNEY	DOCKET NO.	DRWGS	TOTCL	IND CL
06/836,414 03/	05/86	127	\$	340.00	49567		4	10	3

HOLMAN & STERN 2401 15TH ST., N. WASHINGTON, DC 20009

Receipt is acknowledged of the patent application identified herein. It will be considered in its order and you will be notified as to the examination thereof. Be sure to give the U.S. SERIAL NUMBER, DATE OF FILING, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this transmittal.

Applicant(s) C. RICHTER KING, WASHINGTON, DC; MATTHIAS H. KRAUS, CHEVY CHASE, MD; STUART A. AARONSON, GREAT FALLS, VA.

FOREIGN FILING LICENSE GRANTED 04/10/86 TITLE HUMAN GENE RELATED TO BUT DISTINCT FROM EGF RECEPTOR GENE